

LINCOLNSHIRE, IL 60069

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMER United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/518,184 08/12/2005 Tatsuya Watanabe 3057 US0P 7349 EXAMINER 23115 7590 04/06/2006 TAKEDA PHARMACEUTICALS NORTH AMERICA, INC MEAH, MOHAMMAD Y INTELLECTUAL PROPERTY DEPARTMENT ART UNIT PAPER NUMBER 475 HALF DAY ROAD SUITE 500 1652

DATE MAILED: 04/06/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action Summary	10/518,184	WATANABE ET AL.	
	Examiner	Art Unit	
	Mohammad Meah	1652	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).			
Status			
1) Responsive to communication(s) filed on			
	action is non-final.		
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is		
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.			
Disposition of Claims			
4)⊠ Claim(s) <u>1-18</u> is/are pending in the application.			
4a) Of the above claim(s) is/are withdrawn from consideration.			
5) Claim(s) is/are allowed.			
6) Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) <u>1-18</u> are subject to restriction and/or election requirement.			
Application Papers		`	
9) The specification is objected to by the Examiner.			
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority documents have been received.			
2. Certified copies of the priority documents have been received in Application No			
3. Copies of the certified copies of the priority documents have been received in this National Stage			
application from the International Bureau (PCT Rule 17.2(a)).			
* See the attached detailed Office action for a list of the certified copies not received.			
Attaghment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Summary		
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 	Paper No(s)/Mail Da 5) Notice of Informal P	ate atent Application (PTO-152)	
Paper No(s)/Mail Date	6) Other:	•	

. .

Application/Control Number: 10/518,184 Page 2

Art Unit: 1652

DETAILED ACTION

1. The claims 1-18 are pending in the instant office action.

Restriction

2. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claims 1, 5, 9-10, drawn to prophylacetic/therapeutic agent for bone disease that inhibits MMP polypeptide of SEQ ID NO: 1.

Group II, claims 2-3, drawn to prophylacetic/therapeutic agent for bone disease that inhibit the expression of gene encoding MMP polypeptide of SEQ ID NO: 1.

Group III. Claims 4, 6, 8, drawn to prophylacetic/therapeutic agent for bone disease comprising antibody of MMP polypeptide of SEQ ID NO: 1.

Group IV, claims 7, 13-14 drawn to diagnostic agent comprising DNA encoding MMP polypeptide of SEQ ID NO: 1.

Group V, claim 11, drawn to method of identifying prophylacetic/therapeutic agent for bone disease that inhibits MMP polypeptide of SEQ ID NO: 1.

Group VI, claim 12 drawn to a kit for identifying prophylactic/therapeutic agent for bone disease comprising MMP polypeptide of SEQ ID NO: 1.

Group VII, claims 16-17, drawn to method of preventing /treating bone disease by administering inhibitor of MMP polypeptide of SEQ ID NO: 1.

Application/Control Number: 10/518,184

Art Unit: 1652

Group VIII, claim 18, drawn to use of a compound that inhibits activity of MMP polypeptide of SEQ ID NO: 1.

The inventions listed as Groups I-VIII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Groups I-IV, VI and groups V, VII-VIII do not share their technical feature because one set of Groups involve products whereas other set of Groups involve method steps. Thus, while the products of Groups I are used by the method of groups VII-VIII, former product can be used by other methods having other technical features. Groups I-IV, VI do not share same technical feature because they involve different products having different structures. Groups V, VII-VIII do not share same technical feature because these method steps comprise different steps, use different products and produce different outcomes.

Furthermore, the technical feature linking group I-VIII appears to be that they all relate to MMP protein. The MMP protein does not constitute a "special technical feature" as defined by PCT Rule 13.2, because it does not claim a feature, which defines a contribution over the prior art as MMP protein is taught by Dublanchet et al. (US 2004/0171543 A1).

- 4. In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.
- 5. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement is traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b)

Art Unit: 1652

if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammad Meah whose telephone number is 571-272-1261. The examiner can normally be reached on 8:30-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapu Achutamurthy can be reached on 571-272-0928. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mohammad Younus Meah, PhD Examiner, Art Unit 1652 Recombinant Enzymes, 3C31 Remsen Bld 400 Dulany Street, Alexandria, VA 22314

Telephone: 517-272-1261

TEKCHAND SAIDHA PRIMARY EXAMINER